

WHAT IS CLAIMED IS:

1. In controlling a reverse data rate by a mobile station of a mobile communication system supporting a H-ARQ system, a reverse data rate control method comprising the steps of:

5 receiving a grant message including reverse data rate control information and application range indication information from a base station; and

controlling the reverse data rate according to the reverse data rate control information included in the grant message,

10 wherein if the application range indication information indicates that contents of the grant message are applied to a corresponding ARQ-channel at a moment of receiving the grant message only, an application range of the contents of the grant message is limited to a prescribed range even if receiving a NAK signal from the base station at a time point of receiving the grant message.

15 2. The reverse data rate control method of claim 1, wherein the reverse data rate control information is a maximum encoder packet size (EP-SIE).

3. The reverse data rate control method of claim 1, wherein the application range indication information includes ALL_ACID_IND information
20 indicating whether the grant message is applied to entire ARQ-channels and PERSISTENC information indicating whether the grant message keeps being applied to

a specific ARQ-channel.

4. The reverse data rate control method of claim 1, wherein the prescribed range is an ARQ-channel unit group.

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5. The reverse data rate control method of claim 2, wherein the reverse data rate is determined within a range of authorized_TPR corresponding to the maximum encoder packet size (EP-SIE) included in the grant message.

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6. The reverse data rate control method of claim 3, wherein if values of the ALL_ACID_IND and the PERSISTENCE are TRUE and FALSE, respectively, the contents of the grant message are applied within the ARQ-channel unit group.

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7. The reverse data rate control method of claim 3, wherein if each value of the ALL_ACID_IND and the PERSISTENCE is FALSE, respectively, the contents of the grant message are applied to a corresponding ARQ-channel within the ARQ-channel unit group only.

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8. The reverse data rate control method of claim 1, wherein a channel carrying reverse data is a reverse-packet data channel (R-PDCH).

9. The reverse data rate control method of claim 1, wherein the grant message is received over a forward-grant channel (F-GCH).